

Transportation and Construction Division
Construction Specialty
M.S., M.S.E. and M.S.C.E. Degrees

1. Degree requirements for various options:

	Thesis Option (Credits)	Non-Thesis Option (Credits)
Coursework	30	36
500 Seminar	3	3
601 Intern	N.A.	N.A.
600 Research Paper	N.A.	3
700 Thesis	9	N.A.
Total	42	42

Notes and General Requirements

- The Transportation and Construction Division requires a Research Paper or Thesis as a degree requirement. This is not necessarily a requirement in the other CEE Divisions.
- A degree program plan must be submitted to the CEE Graduate Advising Office and your faculty advisor before the end of your first academic quarter.
- At least 3 coursework credits must be taken outside the CEE department.
- At least ½ of coursework credits must be at the 500 level.
- The General Requirements noted in the Department's "CEE Master's Degree Requirements" apply—namely Nos. 2, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, and 15 (these requirements can be found at http://www.ce.washington.edu/programs/prospective/grad/ms_degree/MSreqs.html). Requirement No. 8 is modified in that any CM course taken counts as a CEE course.

2. CEE 600 Research Paper Process

2.1 Identify an advisor during the Fall Quarter, pick a topic (or *issue*) for CEE 600, and begin your research. Specific requirements and submittal dates relative to the research paper will be provided in the Fall Quarter CEE 500 Seminar class. Generally, in addition to identifying the research topic, you are expected to provide a short summary describing the topic and an initial reference list by the end of the Fall Quarter.

2.2 You are not expected to complete the paper during the Winter Quarter but make substantial progress. By the end of the Winter Quarter, you are expected to complete a full outline for the paper, a completed literature review, begin your analysis of data (as appropriate), and preparation of a portion of the text. Discuss with your faculty advisor the required work to complete the paper during the Spring Quarter.

2.3 In Spring Quarter, sign up for 3 credits of CEE 600 with your faculty advisor, complete the paper and get a grade for the three CEE 600 credits. The grade for CEE 600 must be ≥ 3.0

to complete the research paper requirement.

2.4 Research paper -- definitions and expectations

2.4.1 The research paper topic must relate to an *issue* of regional, national or international relevance in the transportation or construction field. One may choose to pursue future “hot topics,” resurrect topics from existing literature, or based your past experience. A wide range of topics is suitable; however, it is critical that you select the topic with the concurrence of your faculty advisor.

2.5.2. *Methods* relating to the paper can provide data summaries, survey results, or other innovative solutions for practical problems. The research paper should include both “issues” and “methods” components.

2.5.3 The research paper format can be done using one of three sets of guidelines: (1) Use the format for the Journal of the Transportation Research Board. These requirements normally include a 7,500 word limit (but that word limit is flexible). This information can be found on the Transportation Research Board website at <http://www.trb.org/Guidelines/Authors.pdf>; (2) Use the format recommended by the Washington State Transportation Center (TRAC) located at <http://depts.washington.edu/trac/projmgmt/GradReportGuide.html#theses>; or (3) Use the guidelines provided by the Graduate School for theses (current version October 2005) (http://www.grad.washington.edu/stsv/stylman/policy_style.pdf).

3. Required Construction Program Courses

Quarter	Course	Credits
Autumn	CEE 500 Seminar (T&C Division)	1
Winter	CEE 500 Seminar (T&C Division)	1
Spring	CEE 500 Seminar (any Division)	1
Spring	CEE 600 Research Paper (for Non-Thesis Option)	3
Summer	ADMIN 510 (not required but highly recommended)	15

4. Typical Courses taken by Quarter

Total courses shown by Quarter exceed the maximum that should be taken. This list of courses is not guaranteed but should be close to the final offerings for AY 2007-2008. Additional course offerings that may be of interest to construction-oriented students are available in numerous other departments such as Geological Sciences, Industrial Engineering, Architecture, Statistics, etc.

Quarter	Course Number	Title	Credits
Autumn 2007	IND E 537	Introduction to Manufacturing Systems	3
	CEE 421B	Pavement Design	3
	CEE 424	GIS for Civil Engineers	3
	CEE 500	Seminar - Wang	1
	CEE 580	Urban Trans Planning/Design	3
	CM 510	Advanced Construction Techniques	3
	CM 520	Construction Procurement Systems	3
	ENV H 560	Organizing and Administering Industrial Safety and Health Programs (we do not have much experience with this course but it appears to be promising)	3
Winter 2008	CEE 410	Traffic Engineering Fundamentals	3
	CEE 404	Infrastructure Construction	4
	CEE 500	Seminar	1
	CEE 583	Airport Design and Construction	3
	CEE 591	Freight Transportation	3
	CEE 593	Construction Labor Law	3
	CM 515	Innovative Project Management	3
	CM 525	Cost Analysis and Management	3
	CM 555	Construction Firm Management	3
	CM 570	Facilities Management	3
	ME 599	Life Cycle Assessment	3
Spring 2008	CEE 425	Reinforced Concrete Construction	3
	CEE 500	Seminar	1
	CEE 599	Pavement Construction and Quality Control	3
	CEE 600	Research Paper	3
	CM 565	Managing International Projects	3
Summer 2008	ADMIN 510	Integrative Administration	15

Note: A wide variety of 400 and 500 level construction-oriented courses are available to CEE Transportation and Construction Graduate Students through the Department of Construction Management in the College of Architecture and Urban Planning.

Course availability is a bit of a moving target but the above is a good start for your consideration.